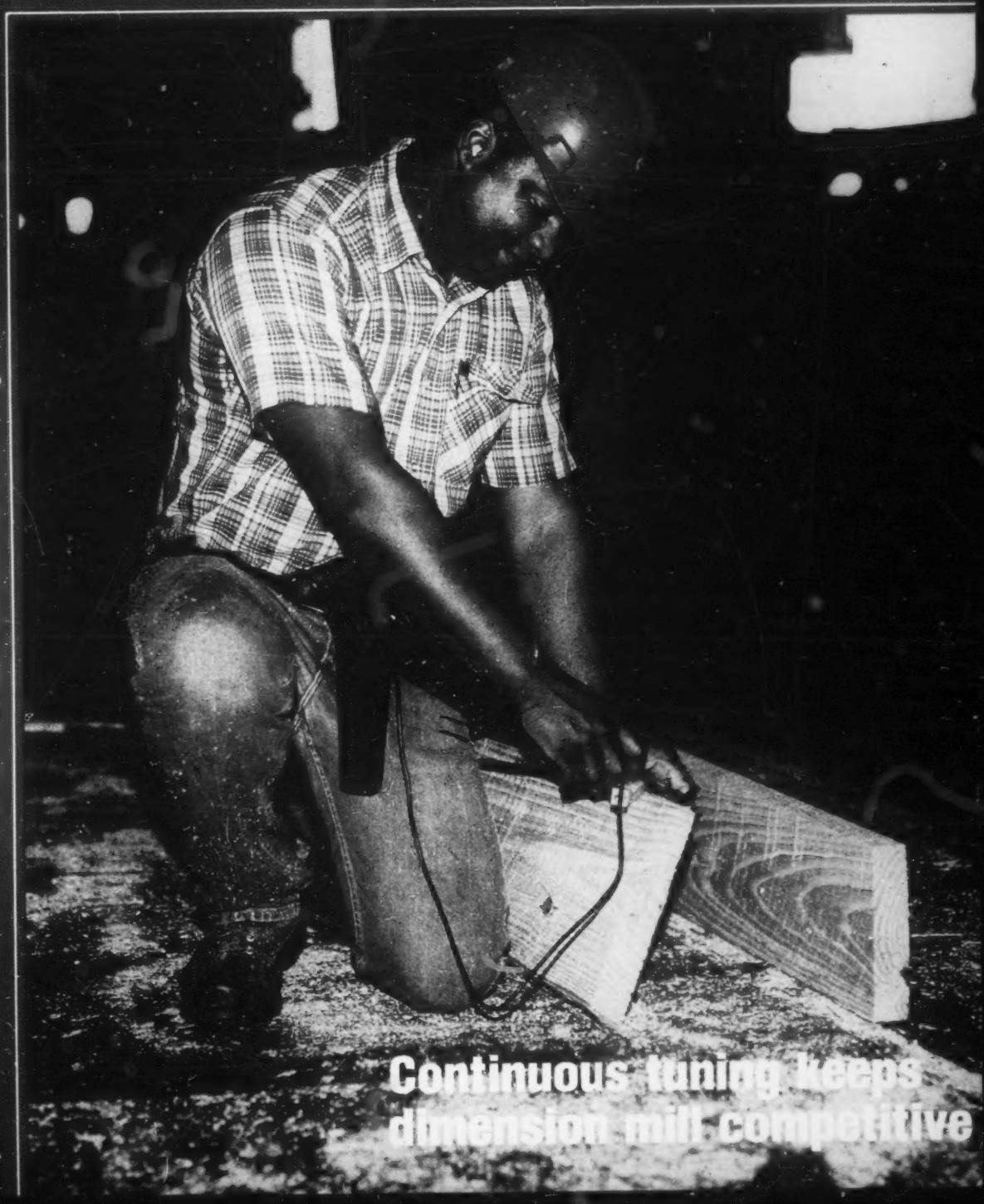
MARCH 1988

FOREST INDUSTRIES

C3975-1
3/14/88

LOGGING/PULPWOOD/FORESTRY/LUMBER/PANELS



Continuous tuning keeps dimension mill competitive

0800091758 070189
016
SERVICE INC/STATIS REF IN
CONGRESSIONAL INFORMATION
4520 EAST-WEST HWY STE 80 STA
BETHESDA MD 20814

1988 Volume 115 Number 3

MARCH

Mills

18
Continuous tuning keeps dimension mill competitive
Custom-designed carriage and a high-speed edger highlight major upgrade project at Leaf River Forest Product's mill in New Augusta, Miss. The mill boasts a strong quality control program

22
Creating a 'super sawmill': what the future holds
In the sawmill of the future, logs are processed quickly, efficiently and at surprisingly low cost. Best of all, all the technology is available today

34
Of technical interest: two German sawmills
Two dissimilar softwood sawmills in Bavaria, West Germany, feature machines and control systems that would be right at home in North America

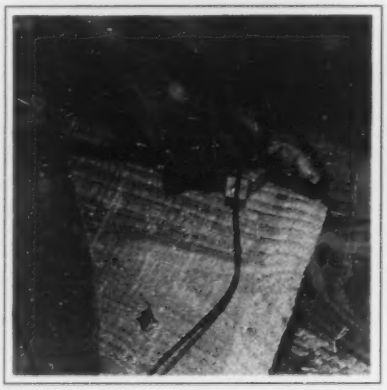
36
Lumber Q.C. programs boost profits and yields
In the not so distant past, mill managers often considered quality control programs as a necessary evil. But times have changed, and attitudes have too

45
Scanning technology making rapid advances
Scanning is one of the most rapidly changing areas in lumber processing. Here's a review of recent developments

Woods

26
'Work within the system and just keep on going!'
Capps brothers build high-volume stationary chip mill in Landrum, S.C., when company cuts off production from their in-woods chipping operation. Existing equipment is adapted

42
Family logging company takes care of business
Computerized bookkeeping helps management at Brooks Logging Co. in Eupora, Miss., stay on top of a diversified operation. Crews focus on thorough log merchandising



Cover story, page 18

Departments

9
For the Record

15
International Trade

46
Making Equipment Pay

54
Equipment

61
Newsmakers

62
Supplier News

67
Industry News

68
Meetings

Make these changes on your dance card

SAN FRANCISCO, CALIF.—Two corporate name changes resulting from shifts in ownership should be inked into the record:

• The former Georgia Kraft sawmill in Rome, Ga., is now part of Inland-Rome, a subsidiary of Inland Container Corp., headquartered in Indianapolis, Ind. Inland and The Mead Corp. were former partners in Georgia Kraft, some assets of which were sold off last year.

• Proboard Ltd. is the new name of the former Pluswood Mfg. Ltd. particleboard plant in Atikokan, Ont. The new company name reflects sale of Pluswood Inc.'s United States business, according to president Franz L. Boschwitz. Thomas L. Plouffe, formerly with Grant Waferboard, has been named plant manager at Atikokan. ■

New, remodeled mills on capital project list

PRENTICE, WIS.—John A. Biewer Lumber Co., based in St. Clair, Mich., will build a $15-million sawmill and treating plant in Prentice this year.

Construction was scheduled to commence upon completion of financing arrangements, with completion scheduled for November. The sawmill will cost $12.5 million and the treating plant $2.5 million.

Other projects:

• Georgia-Pacific Corp. has completed an expansion project at its medium-density fiberboard plant at Holly Hill, S.C., bringing capacity to 300 tpd. Key elements are an L-46 Defibrator and a Motala six-opening, 8 by 25-ft press supplied by Sunds Defibrator. A chip hopper and screw conveyor for the Defibrator, and press loader and unloader were also part of the Sunds installation. The press conversion, which involved removal of the old press line, was completed in less than two months.

• Crown Forest Industries Ltd. is remodeling its sawmill at Armstrong, B.C. The C$14.5-million project will increase recovery, improve productivity and allow the mill to produce higher-value lumber products for offshore and North American markets.

• WTD Industries Inc. will modernize its wholly owned Graham Plywood Co. plant near Tacoma, Wash., the former North Pacific Plywood Inc. facility purchased last year. Financing will include $3 million from state of Washington industrial revenue bonds.

In connection with reconstruction of its Crater Lake Lumber Co. sawmill near Chemult, Ore., destroyed by fire last November, WTD will construct a 2.5-mW cogeneration plant. The cogen plant will be financed by a $3.75-million package arranged through the state of Oregon. ■

U.S., Canadian forest industry results, fourth quarter, full year 1987 ($ millions)

Company	Fourth quarter Sales	% chg	Erngs[1]	% chg	Full year 1987 Sales	% chg	Erngs[1]	% chg
Abitibi-Price	C786.1	12.6	C34.6	20.1	C2,988.0	8.1	C125.7	17.2
Boise Cascade	975.7	2.5	57.2	79.0	3,820.8	2.2	183.0	80.2
B.C. Forest Prod	C364.4	46.4	C40.7	589.8	C1,400.0	27.3	C140.2	248.8
Champion Int'l[2]	1,157.5	9.4	82.1	27.3	4,614.7	5.2	293.3	46.1
Chesapeake	165.8	10.6	15.2	114.3	675.7	12.7	30.2	119.5
Consol'd-Bathurst	C597.0	13.5	C83.6	107.8	C2,261.0	12.0	C214.4	334.0
Crown Forest[3]	C279.0	53.9	C34.4	304.7	C1,029.9	19.2	C100.7	162.9
Domtar	C656.0	8.4	C38.0	(2.6)	C2,568.0	10.4	C161.0	11.0
Federal Paper Bd[4]	317.3	3.3	25.1	n.m.	1,025.7	8.1	65.8	257.2
Georgia-Pacific[5]	2,229.0	25.2	112.0	34.9	8,603.0	19.1	456.0	54.7
Gt Lakes FP	C193.7	12.7	C29.9	85.5	C752.2	18.0	C96.2	220.1
Gt Nor Nekoosa[6]	782.6	46.3	56.7	52.8	2,589.0	27.0	200.6	88.3
Int'l Paper[7]	2,000.0	5.3	125.0	10.6	7,800.0	41.8	407.0	33.4
Louisiana-Pacific[8]	478.1	25.1	31.3	(77.6)	1,921.6	27.6	125.0	(33.2)
Pope & Talbot	106.8	30.3	7.2	(14.9)	426.9	37.6	28.1	77.9
Potlatch	252.7	3.9	24.9	23.8	992.1	1.6	87.6	25.3
Scott Paper	1,101.2	11.6	67.5	27.6	4,122.0	19.9	233.8	25.4
Temple-Inland[9]	397.9	11.8	33.7	21.2	1,602.7	23.7	141.4	75.0
Union Camp[10]	609.8	14.0	58.9	31.0	2,307.6	12.8	207.5	57.1
Westvaco (10/31)[11]	520.1	4.7	59.2	37.0	1,903.6	5.1	146.2	35.2
Weyerhaeuser	1,783.5	22.9	129.4	34.7	6,989.8	23.6	446.6	61.4
Willamette Ind	379.5	19.4	38.7	46.3	1,431.6	19.3	121.3	63.5

1. Income after taxes, from continuing operations, excluding most significant non-recurring items. 2. 1987 earnings exclude $88.7-million net gain from sale of investments in Stone Container Corp. and U.S. Plywood Corp. 3. Percentages based on 1986 earnings before extraordinary items. 4. 1987 earnings include $8.2-million after-tax charge for debt retirement. Year-earlier net for quarter and year includes $15.1-million charge for debt retirement. 5. 1987 earnings include $66-million pretax gain from sale of investments in Georgia-Gulf Corp.; 1986 earnings include a $33-million pretax gain for the same reason. 6. 1986 earnings exclude net charge of $21.2 million from restructuring. 7. 1986 earnings for quarter and year include pretax gains of $73 million, partly offset by $31-million pretax charge for relocation and plant closing expenses. 8. Year-ago net for quarter and year includes $123.0-million pretax credit from reversal of income taxes. 9. Net income includes gains in 1987 on property and equipment of $4.1 million in the year and $1.4 million in the quarter, and $4.5 million in the 1986 year. 10. 1986 year and quarter exclude $5.1-million net gain on sale of a facility and $3.0 million net charge from repurchase of debt. 11. 1987 year and quarter net includes $12.4-million credit from sale of timberlands. n.m. = Not meaningful.

Wood exports soar, further gains seen

WASHINGTON, D.C.—While totals for the year have not been compiled, indications are that the value of wood products exported from the United States in 1987 will reach a record level.

The figure is estimated by National Forest Products Assn. at $3.8 billion, exceeding the previous record of $3.67 billion set in 1980. Exports in 1987 should exceed the previous year by 30%, and NFPA projects an additional 15% increase in 1988.

The reduced value of the U.S. dollar and more aggressive export marketing programs by individual companies and trade associations were regarded as the major forces behind the increase in 1987.

Japan accounts for about 50% of U.S. wood exports. Purchases in 1987 will total about $1.9 billion, according to NFPA, a 50% jump from 1986. Canada is a distant second, followed by South Korea, China and West Germany.

By volume, softwood lumber exports rose 27.1%, softwood plywood 37.6%, hardwood lumber 46.2% and particleboard 39.5%. ■

ADVERTISING INDEX

To obtain more information on advertised products in this issue, circle the corresponding number on the Reader Service Card facing page 40 in this issue.

	Page No.	Reader Service No.
Applied Theory	Cov2	200
Armstrong Manufacturing Co.	61	228
Barko Hydraulics	8	241
Bell Equipment	S2	257
Blum's Saw Service	70	
Bonney, Turner & Harris Inc.	70	
Browning Manufacturing	64	239
CAE Machinery Ltd.	W4	249
Carrier Vibrating Equipment, Inc.	53	225
Carter Products Co. Inc.	58	233
Cascade Southern Saw Corp.	7	204
J I Case	2-3	202
Caterpillar Inc.	12-13	207
Cemco Water Conditioning Inc.	W1	246
Cetec Engineering Co. Inc.	55	205
Coe Manufacturing Co.	29	
Corley Manufacturing	56	229
Cornell Manufacturing Inc.	E/S8	253
Cyber-Tech Inc.	63	237
Davis Forestry International	70	
Deere & Co.	16-17,28	209,210
Dow Chemical U.S.A.	E/S2-3	251
Dubal, Beck, Harris & Associates	70	
Elliott Bay Plywood Machines Co.	31	212
Esterer AG	40	217
Expo '88	E/S1	250
Felco Industries	68	232
Forest Products Engineering	70	
Fulghum Industries Inc.	S1	256
General Kinematics	59	234
Goring Kerr Inc.	51	223
Guideline Laser Instruments	57	230
Hallco Manufacturing Co. Inc.	48	220
Hampton Power Products	47	219
Hannaco Knives & Saws	41	218
Harris Group	70	
R.J. Hill Engineering	70	
INOVEC	62	236
Interbimall	49	221
International Trade Consultants	70	
Irvington-Moore	Cov3,E/S6	244,252
Joey Bed Inc.	63	238
Keith Manufacturing Co.	Cov4	245
KH_2A Engineering	70	
Kockums Cancar Corp.	14	208
Lamb Gray's Harbor Co.	53	226
Lignomat	58	259
L-M Equipment Co.	68	240
Log Boss	1	201
Lumber Manufacturing	60	235
Manitowoc Debarking Systems	30	211
McDonough Manufacturing	32	213
Mid-South Engineering	70	
Montgomery Industries International	50	222
Pacific Power & Light	W2-3	248
Pacific/Hoe Saw & Knife Co.	33	214
Parker Hannifin Corp.	54	227
Pease & Beadling Engineers	70	
Precision America Corp.	E/S7	254
Price Industries	51	258
Progress Industries	67	231
Schurman Machines	74	243
Search North America	70	
Sick Optic-Elektronik, Inc.	38	215
Stihl Inc.	10	206
Supatimber, A Division of Rentokil	52	224
Taylor Machine Works	39	216
Valmet Inc.	6	203
Valon Kone Canada Ltd.	W1	247
Webco Corp.	E/S4	255
Western Roller Corporation	69	242
Wood Machining Institute	70	

The index on this page is provided as a service to readers.
The publisher does not assume any liability for errors or omissions.

FOREST INDUSTRIES
LOGGING PULPWOOD FORESTRY LUMBER & PANELS

Combining *The Timberman* and *The Lumberman*

PUBLISHING / SALES HEADQUARTERS
SAN FRANCISCO, CALIFORNIA 94105
500 Howard St., (415) 397-1881
Telex: 278273 Cable: Millreepub
Leigh M. Freeman, Publishing Director
Leonard E. Haas, Group Publisher
Wini D. Ragus, Director of Circulation
Andrew A. Mickus, Director of Production
Kim L. Fleischauer, Ad Production Coordinator

REGIONAL SALES OFFICES

SAN FRANCISCO, CALIFORNIA 94105
500 Howard St.
(415) 397-1881
Telex: 278273 Fax: 415-543-0256
William Little, Western Sales Manager
Jan Curcio, Sales Assistant

CHICAGO, ILLINOIS 60601
35 E. Wacker Dr., (312) 372-6238
Bernice Bethel, Sales Assistant

ATLANTA, GEORGIA 30339
2700 Cumberland Parkway, N.W. Suite 530
(404) 432-3186
Jay E. Schlosser, Southern Sales Manager
Mary Anne Thompson, Sales Assistant

LONDON, ENGLAND
Lansdowne Media Services Ltd.
Landsdowne House, 12 Church St.
Rickmansworth, Hertfordshire, UK WD3 1BS
Telephone: 0923-777711
Telex: 28764 LMS LTD G
Fax: 44-9-23721103
David M. Lansdowne
Christina Burrows, Sales Assistant

B-1180 BRUSSELS, BELGIUM
BWB Media Services
198 Avenue Winston Churchill, Boîte 4
Telephone: 347-31-35
Telex: 63546 BWB B Fax: 32-2-3473206
Brian W. Bussey

B-1000 BRUSSELS, BELGIUM
Baudry Boisseau Associates
Rue J. Lebeau, 27
Telephone: 513-06-47 513-17-32
Telex: 62775 BBA Fax: 32-2-5141738
Baudry C. Boisseau

D-4630 BOCHUM 6, FED. REP. GERMANY
Postfach 600 264
Telephone: 2327-88609 Telex: 820468 EDH
Ernst Dieter Hartmann

TOKYO, JAPAN
Orient Echo Inc.
1101 Grand Maison Shimomiyabi-cho 8
Shinjuku-ku, Tokyo 162, Japan
Telephone: (03) 235-5961 Telex: J33376
Masahiko Yoshikawa

ADVERTISING: Complete offset negatives and inserts should be sent to FOREST INDUSTRIES, c/o American Press Div., Combined Communications Services Inc., 5601 Paris Rd., Columbia, Mo. 65202. Copy and art for publication-set ads, all insertion orders and special instructions should be sent to the publishing office: 500 Howard Street, San Francisco, Calif. 94105.

VBPA

©COPYRIGHT 1988 by Miller Freeman Publications Inc. All rights reserved. Contents may not be reproduced without permission. *Forest Industries, The Timberman, The Lumberman, National Timber Industry, Western Timber Industry* and *Industrial Wood Energy* are trademarks of Miller Freeman Publications Inc.

MILLER FREEMAN publications

Chairman of the Board: Lord David R. Stevens; President: Marshall W. Freeman; Vice Presidents: Charles C. Bsake, Leigh M. Freeman, Leonard E. Haas, Barbara M. Hampson, Thomas L. Kemp, and Wini D. Ragus; Corporate Financial Manager: Charles H. Benz; Secretary/Treasurer: Miller Freeman III; Assistant Treasurer: Douglas M. Denny.